Amendments to the Claims:

Please replace the claims with the following listing of claims.

1.   (Currently Amended) A method for transmitting a plurality of data types over a plurality of transmission paths, comprising:

storing data of a plurality of ~~compressed and non-compressed~~ data types, including linework (LW) data and linework control (LWC) data;

receiving ~~requests~~ a request for the stored data;

transmitting ~~distinct streams of data of both the compressed and non-compressed data types~~ at least one of the linework (LW) data and the linework control (LWC) data over ~~each of a plurality of~~ a shared transmission ~~paths~~ path; and

processing the transmitted data in accordance with the data type of the transmitted data after the transmission of the data.

2.   (Currently Amended) The method of claim 1, wherein storing the ~~compressed~~ data ~~types~~ further comprises placing the data in one of a plurality of First-In First-Out (FIFO) buffers.

3.   (Currently Amended) The method of claim 1, further comprising requesting the stored data by introducing an identification pattern into a transmission request, the identification pattern indicating the data type of the data requested.

4.   (Currently Amended) The method of ~~claim 1~~ claim 3, wherein transmitting ~~distinct streams of data of both the compressed and non-compressed~~ the data ~~types~~ further comprises transmitting the data identification pattern associated with the data type being transmitted at the same time as the data being transmitted.

5.   (Currently Amended) The method of claim 1, wherein transmitting ~~distinct streams of data of both the compressed and non-compressed~~ the data ~~types~~ further comprises transmitting ~~Linework~~ the linework (LW) data over ~~any one of a plurality of~~ a linework control (LWC) transmission ~~paths~~ path.

6.   (Currently Amended) The method of 1, wherein transmitting ~~distinct streams of data of both the compressed and non-compressed~~ the data ~~types~~ further comprises transmitting ~~Linework~~ the linework control (LWC) data over ~~any one of a plurality of~~ a linework (LW) transmission ~~paths~~ path.

7.   (Currently Amended) The method of 1, wherein transmitting ~~distinct streams of data of both the compressed and non-compressed~~ the data ~~types~~ further comprises transmitting continuous tone (CT) data over ~~any one of a plurality of~~ a continuous tone (CT) transmission ~~paths~~ path.

8. (Currently Amended) The method of claim 1, wherein processing the transmitted data further comprises reading a word of the data into a data decompression module every one half clock cycle.

9. (Original) The method of claim 8, wherein processing the transmitted data further comprises multiplexing the different types of data and processing each type of data received in accordance with the data type.

10. (Currently Amended) The method of claim 9, wherein processing the transmitted data further comprises ~~losslessy~~ losslessly decompressing the data when the data received is ~~Linework~~ the linework (LW) data.

11. (Currently Amended) The method of claim 9, wherein processing the transmitted data further comprises ~~losslessy~~ losslessly decompressing the data when the data received is ~~Linework~~ the linework control (LWC) data.

12. (Original) The method of claim 9, wherein processing the transmitted data further comprises decompressing the data when the data received is continuous tone (CT) data.

13. (Currently Amended) A method for transmitting a plurality of data types over a plurality of transmission paths comprising:

storing data of a plurality of ~~compressed and non-compressed~~ data types, including

linework (LW) data and linework control (LWC) data, in a plurality of First-In

First-Out (FIFO) buffers;

requesting the stored data by introducing an identification pattern into a transmission

request, the identification pattern indicating the data type of the data being

requested;

transmitting the identification pattern associated with the data type being transmitted at

the same time as the data being transmitted;

transmitting a distinct stream of ~~Linework~~ the linework (LW) data over any one of a

plurality of shared transmission paths;

transmitting a distinct stream of ~~Linework~~ the linework control (LWC) data over any one

of ~~a~~ the plurality of shared transmission paths;

transmitting a distinct stream of continuous tone (CT) data over ~~any one of a plurality of~~

~~transmission paths.~~ a distinct transmission path; and

processing the transmitted data in accordance with the data type of the data after the

transmission of the data, the processing further comprising:

reading a word of the data into a decompression module every one-half clock

cycle;

multiplexing the different types of data and processing each type of data received

in accordance with the data type;

losslessly decompressing the data when the data received is ~~Linework~~ the

linework (LW) data;

losslessly decompressing the data when the data received is ~~Linework~~ the

linework control (LWC) data; and

decompressing the data when the data received is the continuous tone (CT) data.

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14.   (Currently Amended) A system for transmitting a plurality of data types over a

plurality of transmission paths comprising:

a memory module configured to store a plurality of ~~compressed and non-compressed~~ data

types, including linework (LW) data and linework control (LWC) data;

a handshaking control module configured to control ~~the flow of a distinct stream of~~

transmission of the linework (LW) data and the linework control (LWC) data ~~into~~

~~a data processing module~~ over a shared transmission bus; and

a data processing module configured to receive and process the transmitted data in

accordance with the data type of the transmitted data.

15.   (Original) The system of claim 14, wherein the memory module further comprises

a plurality of First-In First-Out (FIFO) buffers.

16.   (Original) The system of claim 14, wherein the handshaking control module is

further configured to receive data from a host and place the received data into the memory

module.

17.   (Currently Amended) The system of claim 16, wherein the handshaking module is

further configured to place the ~~data~~ received data into one of the plurality of FIFO buffers

depending upon the data type of the data received.

18.   (Original) The system of claim 14, wherein handshaking control module is further

configured to receive requests for print data from the data processing module.

19.   (Currently Amended) The system of claim 18, wherein the handshaking control module is further configured to place the requested data ~~requested from the data processing module~~ on ~~the~~ a data bus appropriate for the data type requested.

20.   (Currently Amended) The system of claim 19, wherein the handshaking control module is further configured to place continuous tone (CT) data ~~upon~~ on a dedicated continuous tone (CT) bus.

21.   (Currently Amended) The system of claim 19, wherein the shared transmission bus comprises one of a plurality of shared transmission buses and the handshaking control module is further configured to place ~~Linework~~ the linework (LW) data ~~upon the~~ on a least busy of ~~a~~ the plurality of shared transmission buses ~~used for either Linework (LW) or Linework control (LWC) data~~.

22.   (Currently Amended) The system of claim 19, wherein the shared transmission bus comprises one of a plurality of shared transmission buses and the handshaking control module is further configured to place ~~Linework~~ the linework control (LWC) data ~~upon the~~ on a least busy of ~~a~~ the plurality of shared transmission buses ~~used for either Linework (LW) or Linework control (LWC) data~~.

23.   (Currently Amended) The system of claim 14, wherein the data processing module ~~if~~ is further configured to evaluate header information relating to a print job to determine what types of data to request from the handshaking control module.

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24. (Currently Amended) The system of claim 23, wherein the data processing module is further configured to read one word of the received data into a decompression module every one-half clock cycle.

25. (Original) The system of claim 24, wherein the data processing module is further configured to process each type of data received in accordance with the data type.

26. (Currently Amended) The system of claim 25, wherein the decompression module is configured to losslessly decompress ~~Linework~~ the linework (LW) data.

27. (Currently Amended) The system of claim 25, wherein the decompression module is configured to losslessly decompress ~~Linework~~ the linework control (LWC) data.

28. (Original) The system of claim 25, wherein the data processing module is further configured to decompress continuous tone (CT) data.